1.4-1.6 Practice Quiz and Answer Key

1.4 – 1.6   Quiz

List the factor pairs of the number. *(Section 1.4)*

1. 48

2. 56

Write the prime factorization of the number. *(Section 1.4)*

3. 60

4. 72

Find the GCF of the numbers using lists of factors. *(Section 1.5)*

5. 18, 42

6. 24, 44, 52

Find the GCF of the numbers using prime factorizations. *(Section 1.5)*

7. 38, 68

8. 68, 76, 92

Find the LCM of the numbers using lists of multiples. *(Section 1.6)*

9. 8, 14

10. 3, 6, 16

Find the LCM of the numbers using prime factorizations. *(Section 1.6)*

11. 18, 30

12. 6, 24, 32

Add or subtract. Write the answer in simplest form. *(Section 1.6)*

13. $\dfrac{3}{5} + \dfrac{2}{3}$

14. $\dfrac{7}{8} - \dfrac{3}{4}$

15. PICNIC BASKETS You are creating identical picnic baskets using 30 sandwiches and 42 cookies. What is the greatest number of baskets that you can fill using all of the food? *(Section 1.5)*

16. RIBBON You have 52 inches of yellow ribbon and 64 inches of red ribbon. You want to cut the ribbons into pieces of equal length with no leftovers. What is the greatest length of the pieces that you can make? *(Section 1.5)*

17. MUSIC LESSONS You have piano lessons every fourth day and guitar lessons every sixth day. Today you have both lessons. In how many days will you have both lessons on the same day again? Explain. *(Section 1.6)*

18. HAMBURGERS Hamburgers come in packs of 20, while buns come in packs of 12. What is the least number of packs you should buy in order to have the same numbers of hamburgers and buns? *(Section 1.6)*

ANSWER KEY

1. (1,2,3,4,6,8,12,16,24,48)
2. (1,2,4,7,8,14,28, 56)
3. 2^2*3*5
4. 2^3*3^2
5. 6
6. 4
7. 2
8. 4
9. 56
10.   48
11.   90
12.   96
13. $1\frac{4}{15}$
14. $\frac{1}{8}$
15.   6 BASKETS
16.   4in.
17.   12 days (the lcm of 4 and 6 is 12; so you will have both lessons on the 12th day)
18.   3 packs of hamburgers and 5 packs of buns